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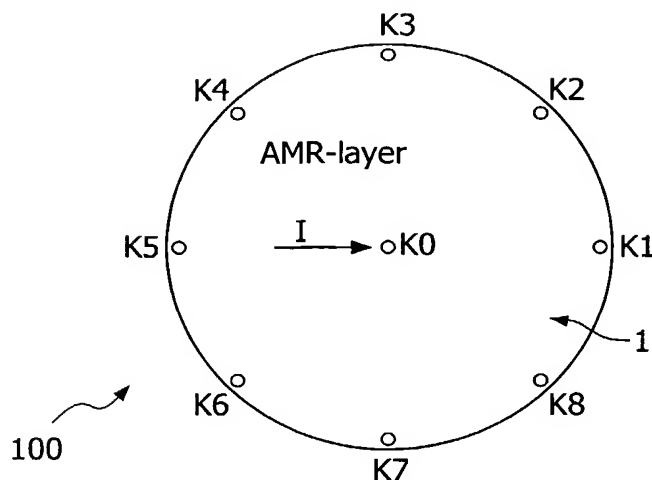
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- (71) Applicant (for DE only): **PHILIPS INTELLECTUAL PROPERTY & STANDARDS GMBH** [DE/DE]; Stein-damm 94, 20099 Hamburg (DE).
- (71) Applicant (for all designated States except DE, US): **KONINKLIJKE PHILIPS ELECTRONICS N. V.** [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): **BUTZMANN, Ste-fan** [DE/DE]; c/o Philips Intellectual Property & Standards GmbH, Weissshausstr. 2, 52066 Aachen (DE).
- (84) Agents: **MEYER, Michael** et al.; Philips Intellectual Property & Standards GmbH, Weissshausstr. 2, 52066 Aachen (DE).
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(54) Title: AMR SENSOR ELEMENT FOR ANGLE MEASUREMENT



(57) Abstract: In order to provide a magnetore-sistive angle sensor (100) comprising a sensor de-vice for detecting an angle (α) of an external mag-netic field relative to a reference axis of the sen-sor device, which allows measurement of the an-gle (α) without the measurement result being af-fected by manufacturing errors, it is proposed that the sensor device comprises a flat AMR layer (14, 15) with one electrical contact (K_0) for applying a current (I) and a plurality of electrical contacts (K_i) for measuring a flow of current through the AMR layer (14,15).